TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S29FS

VCO for UHF Band Radio

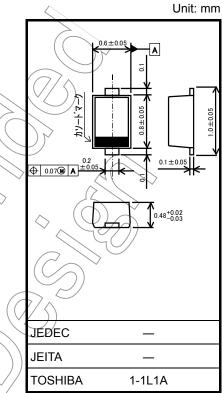
- High capacitance ratio : C_{1V}/C_{4V} =2.8 (typ.)
- Low series resistance : $r_s = 0.66 \Omega$ (typ.)
- This device is suitable for use in small tuners.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Reverse voltage	VR	10	$(\mathcal{N} \land \mathcal{V} $
Junction temperature	Tj	150	(°C)
Storage temperature range	T _{stg}	-55~150	ů ů

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the

Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



Weight: 0.0006 g (typ.)

Electrical Characteristics (Ta = 25°C)

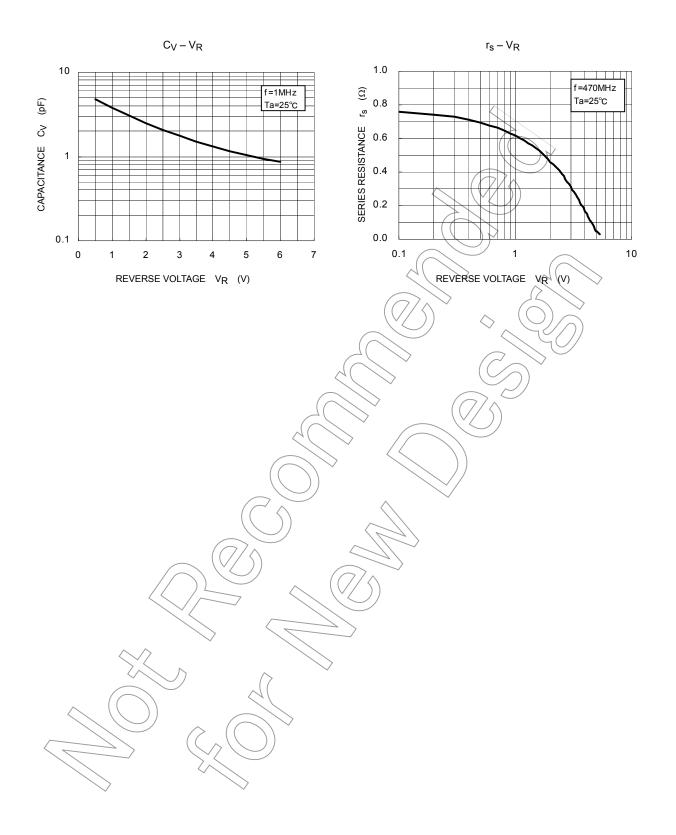
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	$T_R = 1 \mu A$	10	_	_	V
Reverse current	IR	V _R = 6 V	_	_	1	nA
Capacitance	C _{1V}	V _R = 1 V, f = 1 MHz	3.59	_	3.87	рF
	C4V	$V_R = 4 V, f = 1 MHz$	1.26	_	1.4	
Capacitance ratio	C1V/C4V	_	2.73	_	2.91	_
Şeries resistance))r _s	V _R = 1 V, f = 470 MHz	_	0.66	0.77	Ω

Note: Signal level when capacitance is measured. Vsig = 100mVrms

Marking



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